HD31993
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small and light weight bench-top chassis
Class AB linear GaAsFET hybrid design
Instantaneous wide bandwidth
Designed for EMC-EMI/RFI, Lab, and general communication applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25ºC

Parameter	Specification	Notes
Operating Frequency Range	26.5 - 40.0 GHz	
Power Output	5 Watt Typ	Saturated CW
Power output at P1dB GCP	3 Watt Typ	
Power Gain	37 dB Min	
Power Gain Flatness	6.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
Noise Figure	12 dB Max	
Harmonics	<-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	100 Watt Max	At rated Pout
Input Power Protection	+3 dBm Max	<10 Seconds without damage
Load VSWR Protection	∞ : 1	<1 Minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 ºC	
Storage Temperature	-40 to +85 ºC	
Relative Humidity	5 to 95 %	Non Condensing

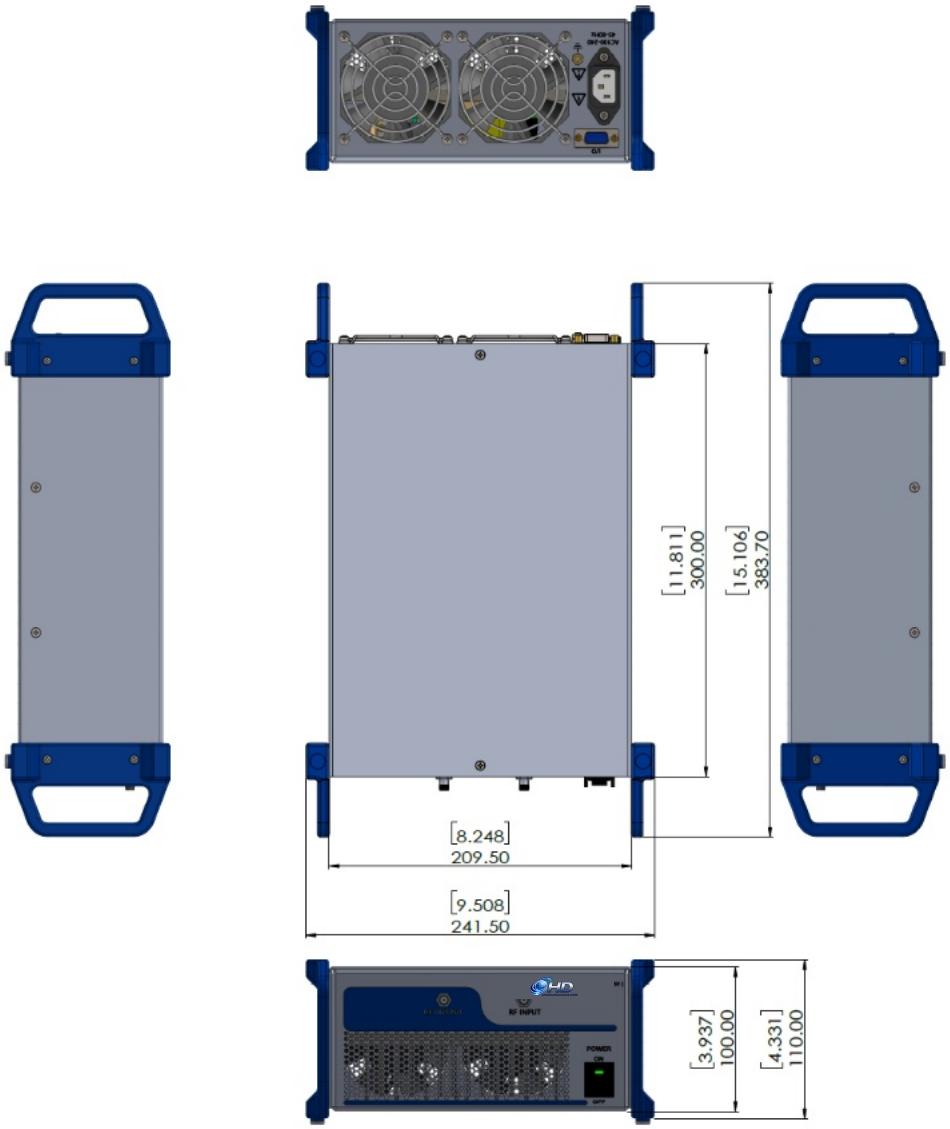
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D (Benchtop)	210 x 100 x 300 mm (242 x 110 x 384 mm)	Excluding brackets Including brackets
Weight	8 kg.	
RF Connectors In/Out	2.9 mm (K / air type) Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	Requires larger 3U chassis. BNC Female on rear panel

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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

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OUTLINE DRAWING



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